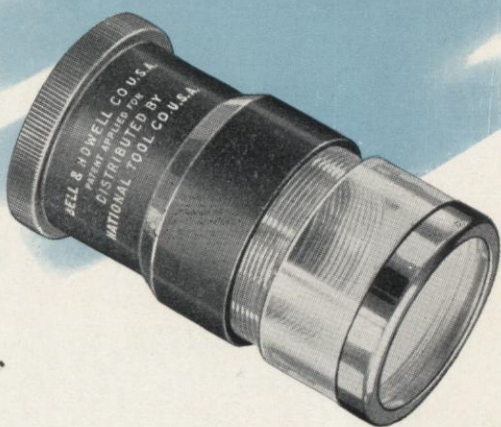


THE POCKET COMPARATOR

*A brand new instrument
A brand new principle!*



A precision optical measuring
instrument for fast, accurate
inspection of small parts...

Developed and Manufactured by:

Bell & Howell Company

Distributed by—

**NATIONAL
TOOL CO.**

11200 Madison Ave. • Cleveland 2, Ohio

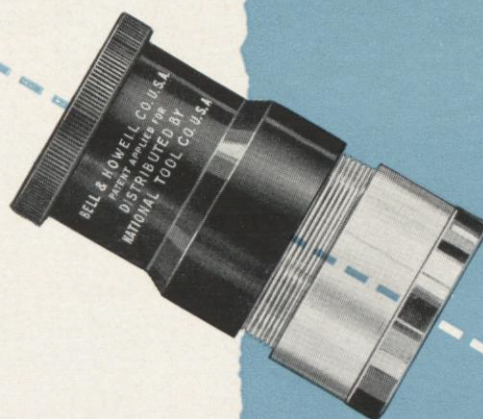


Here's what you see

THE POCKET

*A Precision Instrument
with famous
Bell & Howell
Accuracy*

● The Pocket Comparator is a precision optical measuring instrument for the inspection of small parts. Measurements are accomplished through a combination of a high-precision, powerful magnifying lens and an engraved pattern or reticle. The lens is a triplet aplanatic type to insure optical uniformity throughout the full field of vision. The reticle is made of optically polished crown glass and is calibrated for measuring lengths, widths, circles, radii and angles. Body of the Pocket Comparator is machined aluminum with black anodized protective finish.



Direct linear
measurements from
 $\frac{1}{64}''$ to $\frac{1}{4}''$ in
steps of $\frac{1}{64}''$

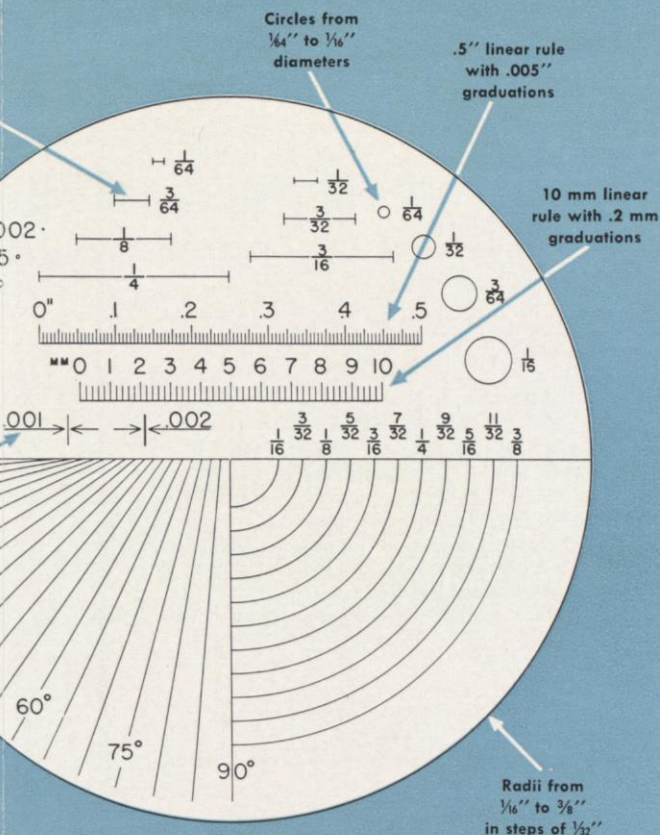
Circles from
.002'' to .050''
diameters

Width lines—
.001'' and .002''

Protractor
showing angles
from 0° to 90°
with 5° increments

● The price
It is unco
Nat

See through RET COMPARATOR



EASY TO USE

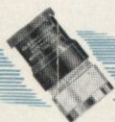
*just follow these
simple directions*



When using this high precision instrument, it is essential that the reticle rests directly on the work to be measured in such a way that the greatest amount of illumination be permitted to enter through the transparent spacer. If the reticle or the work appears fuzzy, the focal length should be changed by adjusting the spacer in the main body of the instrument until greatest clarity has been obtained. Adjustment of focal length in no way impairs the accuracy of the instrument. It can be readily understood that best results can be obtained with this instrument with good illumination, keeping in mind that the reticle and the work *must* be illuminated through the plastic spacer.

of this instrument is \$36.00.
Conditionally guaranteed by
National Tool Company.

Suggested applications for the Pocket Comparator



TOOL ROOM USE



- For checking forms and sizes of punches and dies
- For checking gauges, templates and layouts
- For checking the forms and dimensions of all types of cutting tools
- For checking the amount of wear on the cutting edges of all types of cutting tools, punches, etc.
- For checking the ground form on conventional tool bits
- For checking the form on circular and flat form tools
- For checking the size of small holes, fine threads and wires

PRODUCTION CHECKING



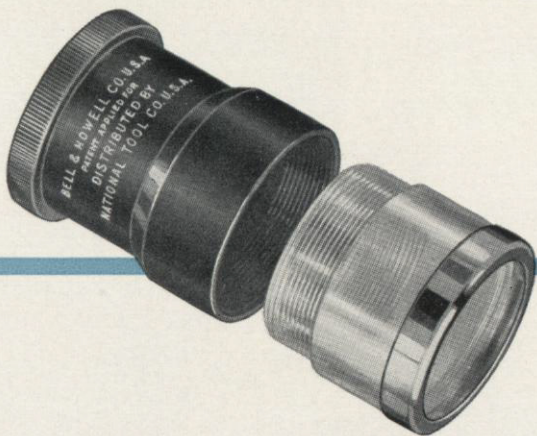
This instrument will reduce the use of more expensive and elaborate measuring devices and can be used for checking radii, angles, chamfers, threads, small holes, lineal, radial and tangent dimensions, odd shapes, etc. on all precision production parts. In many cases parts can now be checked on the production line rather than being taken to large stationary inspection machines, thus saving handling time and bother.

The Pocket Comparator can also be used for the establishment of standards and the inspection of bubbles, blow holes, cracks or other flaws in die castings, plastic molded parts, glass parts, such as lenses or jewels.

GENERAL USE



- Jewelry manufacturers, in checking jewels, size, grade, form, flaws, etc.
- General inspection use, for engravers, type foundries, etc.
- Die casting and plastic molding.
- For printers and artists.
- For metallurgists, chemists and general laboratory work.
- For textile work and paper manufacturing, for checking grades and flaws.
- For abrasive work, to check grain size and shape.
- For general use in home workshops.



- The Pocket Comparator separates in the middle so you can easily clean the interior optical surfaces.



- Attractively and conveniently boxed for safe-keeping and easy handling.



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